# PA THT COOPERATION TREAT

From the INTERNATIONAL BUREAU

PCI	10.
NOTIFICATION OF ELECTION	Assistant Commissioner for Patents
(PCT Rule 61.2)	United States Patent and Trademark Office
	Box PCT Washington, D.C.20231
	ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 22 May 2000 (22.05.00)	in its capacity as elected Office
International application No.	Applicant's or agent's file reference
PCT/AU99/00922	
International filing date (day/month/year) 25 October 1999 (25.10.99)	Priority date (day/month/year) 26 October 1998 (26.10.98)
Applicant	
VUJIC, Milivoj	
1. The designated Office is hereby notified of its election made	st
X in the demand filed with the International Preliminary	Examining Authority on:
17 April 2000 (	17.04.00)
in a notice effecting later election filed with the Interna	ational Bureau on:
2. The election X was	·
wa's not	
made before the expiration of 19 months from the priority de Rule 32.2(b).	ate or, where Rule 32 applies, within the time limit under

Authorized officer

F. Baechler

Facsimile No.: (41-22) 740.14.35 Telephone No.: (41-22) 338.83.38 Form PCT/IB/331 (July 1992)

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland



# THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

- 1. A pre-formed insulation module for insulating a process component having opposed longitudinally extending contacting surfaces extending along a length thereof and terminal contacting surfaces at each end thereof comprising:
  - (a) at least one first inner insulation layer being constituted of an insulation material having suitable thermal shock characteristic under cryogenic conditions and having one surface proximate to a surface of a component to be insulated,
  - (b) at least one second outer insulation layer disposed radially outwardly of said inner insulation layer;
  - (c) at least one water vapour barrier layer; and
  - (d) a cladding layer.
- 2. The module of claim 1 including connection means for connecting said module to a further adjacent such module for insulating said component.
- 3. The module of claim 2 wherein said connection means are circumferentially and longitudinally disposed relative to a longitudinal axis of said module.
- 4. The module of claim 3 wherein said circumferentially disposed connection means are formed in the terminal contacting surfaces and the longitudinally disposed connection means are formed in said longitudinally extending surfaces.
- 5. The module of claim 3 or 4 wherein said connection means are tongue and groove joints, complementary joints being formed at each end of the module.

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- (b) at least one second outer insulation layer disposed radially outwardly of said inner insulation layer;
- (c) at least one water vapour barrier layer; and
- (d) a cladding layer.

By pre-formed is meant that the insulation module may be manufactured, as a complete insulating article, prior to transfer to, and installation at, a factory site. The factory site may be very remote to the site where installation will take place. Such pre-fabrication of modules, which may be installed directly at the site, saves significant site costs and reduces the cost of the insulation project.

The pre-formed module may be made up of any desired number of insulating layer(s) and any desired number of cladding layer(s) though minimising the number of layers will facilitate accurate fabrication. Each layer is of nature and thickness appropriate to the application.

The insulating layers must firstly include, proximate the insulated component, and most advantageously in contact with it, at least one first inner insulation layer of an insulation material, ideally a polymeric foam which retains flexibility and does not embrittle at cryogenic temperatures. Such foam layer accommodates thermal expansion/contraction behaviour of the insulated component and must therefore have appropriate thermal shock characteristics at cryogenic temperatures. Exemplary of such an insulating material is a polyimide foam.

Further second layer(s) of insulating materials of same or different nature from the first layer(s) may be employed radially outwardly from the first insulation layer. Polyisocyanurate resin (PIR), polyurethane or possibly other polymer foams, which may be harder than the first layer, may be employed for such further layers. Five or more such insulation layers may be provided, three or more of which may be formed of a polymeric foam. More advantageously, one or more of the insulation layers may be formed integral to facilitate fabrication. For example, the layers radially outwardly disposed from the inner insulation layer may be integrated to reduce the number of layers of insulation. Typically, the PIR or polyurethane foam layer may be

# PATE IT COOPERATION TREATY

From the:

DEFINATIONAL PRELIMINARY EXAMINE UTHORITY

To:

WATERMARK PATENT & TRADEMARK ATTORNEYS Locked Bag 5 HAWTHORN VIC 3122 **PCT** 

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing day/month/year

-7 AUG 2000

Applicant's or agent's file reference

P15548PCAU

IMPORTANT NOTIFICATION

International application No. PCT/AU99/00922

International filing date 25 October 1999

Priority date
26 October 1998

Applicant

BAINS HARDING LIMITED

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide

Name and mailing address of the IPEA/AU

AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Authorized officer

**GARETH COOK** 

Telephone No. (02) 6283 2541



# PA NT COOPERATION TREATY

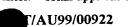
# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P15548PCAU	FOR FURTHER ACTION		Fransmittal of International Preliminary (Form PCT/IPEA/416).
International application No.	International filing da	te (day/month/year)	Priority Date (day/month/year)
PCT/AU99/00922	25 October 1999		26 October 1998
International Patent Classification (IPC)	or national classification	on and IPC	
Int. Cl. 7 F16L 59/02, F16L 59/14			
Applicant BAINS HARDING LIMIT	Applicant BAINS HARDING LIMITED		
		····	
This international preliminary     Authority and is transmitted to			International Preliminary Examining
2. This REPORT consists of a to	al of 3 sheets, include	ling this cover sheet.	
been amended and are th	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).		
These annexes consist of a total of 2 sheet(s).			
3. This report contains indications relati	ng to the following iten	ns:	
I X Basis of the report			
II Priority			
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			step and industrial applicability
IV Lack of unity of in	vention		
	nt under Article 35(2) wanations supporting suc		inventive step or industrial applicability;
VI Certain document	s cited		
VII Certain defects in	the international applic	ation	
VIII Certain observation	ns on the international	application	
Date of submission of the demand	l l	ate of completion of th August 2000	e report
17 April 2000  Name and mailing address of the IPEA/AU		uthorized Officer	
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTR	) AT TA		
E-mail address: pct@ipaustralia.gov.au	G	ARETH COOK	
Facsimile No. (02) 6285 3929		elephone No. (02) 628	3 2541

Inter.	ional	applica	tion N



	Basis of the repor	
1.	With regard to the elem	nents of the international application:*
	the international	application as originally filed.
	X the description,	pages 1-2, 4-18, as originally filed,
		pages , filed with the demand,
		pages 3, received on 26 July 2000 with the letter of 26 July 2000
	X the claims,	pages 20-21, as originally filed,
		pages , as amended (together with any statement) under Article 19,
		pages , filed with the demand,
		pages 19, received on 26 July 2000 with the letter of 26 July 2000
	X the drawings,	pages /- gas originally filed,
		pages filed with the demand,
		pages, received on with the letter of
	the sequence listing	ng part of the description:
		pages , as originally filed
		pages , filed with the demand
		pages, received on with the letter of
2.		rage, all the elements marked above were available or furnished to this Authority in the language in application was filed, unless otherwise indicated under this item.
		silable or furnished to this Authority in the following language which is:
	the language of a	translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of pr	ublication of the international application (under Rule 48.3(b)).
	the language of the and/or 55.3).	e translation furnished for the purposes of international preliminary examination (under Rules 55.2
3.	With regard to any nucle the sequence listing:	eotide and/or amino acid sequence disclosed in the international application, was on the basis of
	contained in the in	nternational application in written form.
	filed together with	the international application in computer readable form.
	furnished subsequ	ently to this Authority in written form.
	furnished subsequ	ently to this Authority in computer readable form.
	C	the subsequently furnished written sequence listing does not go beyond the disclosure in the cation as filed has been furnished.
	The statement that been furnished	the information recorded in computer readable form is identical to the written sequence listing has
4.	The amendments	have resulted in the cancellation of:
	the descript	ion, pages
	the claims,	Nos.
	the drawing	gs, sheets/fig.
5.		en established as if (some of) the amendments had not been made, since they have been considered isclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
•		ave been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this
• •		and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).  The properties of the propert of the properties of the pro



### INTERNATIONAL PRELIMINAR. ...XAMINATION REPORT

Interduonal application No.
7/ / TY00/00022
F/AU99/00922

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

1.	Statement		
	Novelty (N)	Claims 1-13	YES
		Claims	NO
	Inventive step (IS)	Claims 1-13	YES
		Claims	NO
	Industrial applicability (IA)	Claims 1-13	YES
	÷	Claims	NO

2. Citations and explanations (Rule 70.7)

Novelty (N) and Inventive Step (IS) claims 1-13

The closes prior art is considered to be GB 2 296 749. This document discloses a cryogenic insulation module with inner and outer insulation layers, and cladding layer, one layer of which acts as a water vapour barrier, and contacting surfaces for contacting adjacent modules. Claim 1 differs from the prior art by having the longitudinal contacting surface being formed at least in part by one of the insulation layers, while the cited document discloses a separate layer being used to form the longitudinal contacting surface, nor would this construction defined in claim 1 be obvious in the light of the cited document. Therefore the subject matter of claim 1 and appended claims 2-13 is novel and is not obvious and meets the requirements of Articles 33(2) and 33(3) of the PCT with regard to novelty and inventive step.

#### PALAT COOPERATION TREATY WATERMARK From the: THORITY INTERNATIONAL PRELIMINARY EXAMININ PERTH 25 JUL 2000 WATERMARK PATENT & TRADEMARK WRITTEN OPINION **ATTORNEYS** 4th Floor, Durack Centre (PCT Rule 66) 263 Adelaide Terrace 6000 PERTH W.A. Date of mailing 2000 JULY (day/month/year) Applicant's or agent's file reference within ONE MONTH REPLY DUE P15548PCAU RHB:JAM from the above date of mailing International application No. International filing date (day/month/year) Priority Date (day/month/year) 26 October 1998 PCT/AU99/00922 25 October 1999 International Patent Classification (IPC) or both national classification and IPC Int. Cl. 7 F16L 59/02, F16L 59/14 Applicant BAINS HARDING LIMITED et al 1. This written opinion is the second drawn by this International Preliminary Examining Authority. 2. This opinion contains indications relating to the following items:. Basis of the opinion I II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Ш IV Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability, V citations and explanations supporting such statement VI Certain documents cited Certain defects in the international application VII Certain observations on the international application VIII 3. The applicant is hereby invited to reply to this opinion. See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to When? grant an extension, see Rule 66.2(d). How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9. For an additional opportunity to submit amendments, see Rule 66.4. Also For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis. For an informal communication with the examiner, see Rule 66.6. If no reply is filed, the international preliminary examination report will be established on the basis of this opinion. The final date by which the international preliminary examination report must be established 4. according to Rule 69.2 is: 26 February 2001 Name and mailing address of the IPEA/AU Authorized Officer

**GARETH COOK** 

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AUSTRALIAN PATENT OFFICE

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# WRITTEN O. ION

Into tional application No.

T/AU99/00922

I.	Bas	is of the opinion	
1. W	ith reg	ard to the elements	of the international application:*
		the international a	pplication as originally filed.
	X	the description,	pages 1-2, 4-18, as originally filed,
			pages , filed with the demand,
			pages 3, received on 29 June 2000 with the letter of 29 June 2000
	X	the claims,	pages 20-21, as originally filed,
}			pages , as amended under Article 19,
Ì			pages , filed with the demand,
]			pages 19, received on 29 June 2000 with the letter of 29 June 2000
	X	the drawings,	pages 1-8, as originally filed,
			pages , filed with the demand,
1			pages , received on with the letter of
		the sequence listin	g part of the description:
			pages , as originally filed
			pages , filed with the demand
			pages, received on with the letter of
which	the int	ernational applicati	the elements marked above were available or furnished to this Authority in the language in on was filed, unless otherwise indicated under this item.  r furnished to this Authority in the following language which is:
	the l	anguage of a transl	ation furnished for the purposes of international search (under Rule 23.1(b)).
	the l	anguage of publica	tion of the international application (under Rule 48.3(b)).
		anguage of the trar or 55.3).	slation furnished for the purposes of international preliminary examination (under Rules 55.2
		o any nucleotide as basis of the sequen	nd/or amino acid sequence disclosed in the international application, the written opinion was ce listing:
П		-	tional application in printed form.
	filed	together with the in	nternational application in computer readable form.
	furnis	shed subsequently t	o this Authority in written form.
	furnis	shed subsequently t	o this Authority in computer readable form.
			ubsequently furnished written sequence listing does not go beyond the disclosure in the as filed has been furnished.
		tatement that the in furnished.	nformation recorded in computer readable form is identical to the written sequence listing has
4.	The a	mendments have re	esulted in the cancellation of:
		the description	n, pages
		the claims,	Nos.
		the drawings,	sheets/fig.
5.		<b>-</b>	then established as if (some of) the amendments had not been made, since they have been
* Replaceme			yond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).  urnished to the receiving Office in response to an invitation under Article 14 are referred to in this

opinion as "originally filed"



Intertional application No.
PCTAU99/00922

v.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;
ł	citations and explanations supporting such statement

}			
1.	Statement		
	Novelty (N)	Claims 3-10	YES
		Claims 1-2, 11-13	NO
	Inventive step (IS)	Claims 6-10	YES
		Claims 1-5, 11-13	NO
	Industrial applicability (IA)	Claims 1-13	YES
		Claims	NO
ı			

#### 2. Citations and explanations

Document considered for novelty and inventive step:

GB 2 296 749

#### Novelty (N) and Inventive Step (IS) claims 1-5 and 11-13

Claim 1 has been amended to further define that the "contacting surfaces include a portion formed by a portion of at least one of said first inner insulating layer and said second outer insulating layer." However the claim does not indicate if this is referring to the "opposed longitudinally extending contact surfaces" or the "terminal contacting surfaces." GB 2 296 749 discloses in figure 8, described on pages 21-23, that the terminal contacting surfaces 84 are formed from at least a portion of at least one of the insulating layers. At the top of page 23 the specification describes "The opposing faces are not adhesively bonded to one other." (This is in comparison to the embodiment in figure 10 which is described half way down page 24 as having "The end 123 of one or both opposing ends is a layer of foam provided with an adhesive covering for vapour-proof assembly.") Hence the additional feature defined in the claim is disclosed in the citation. The remaining features are disclosed as indicated in the previous Written Opinion. As such claims 1-2 and 11-13 are disclosed by this document and claims 3-5 lack an inventive step in the light of this document.





Internatical application No. PC U99/00922

# VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 1 is not clear. It is not clear if "said contacting surfaces" on the second last line is referring to the "opposed longitudinally extending contacting surfaces," or the "terminal contacting surfaces," or may be referring to either or both. As such the claim is not clear.

# PA1\_.(T COOPERATION TREATY

From the: INTERNATIONAL PRELIMINARY EXAMINING UTHORITY **PCT** WATERMARK PATENT & TRADEMARK WRITTEN OPINION **ATTORNEYS** Locked Bag 5 (PCT Rule 66) HAWTHORN VIC 3122 Date of mailing 10 May 2000 (day/month/year) within TWO MONTHS REPLY DUE Applicant's or agent's file reference from the above date of mailing P15548PCAU Priority Date (day/month/year) International filing date (day/month/year) International application No. 26 October 1998 25 October 1999 10 T/A 2 99 (00 9 222 International Patent Classification (IPC) or both national classification and IPC F16L 59/02, 59/14 Int. Cl. 7 Applicant BAINS HARDING LIMITED et al This written opinion is the first drawn by this International Preliminary Examining Authority. 1. This opinion contains indications relating to the following items:. 2. Basis of the opinion **Priority** II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Ш Lack of unity of invention IV Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; V citations and explanations supporting such statement Certain documents cited VI Certain defects in the international application VII Certain observations on the international application VIII The applicant is hereby invited to reply to this opinion. 3. See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to When? grant an extension, see Rule 66.2(d). By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. How? For the form and the language of the amendments, see Rules 66.8 and 66.9. For an additional opportunity to submit amendments, see Rule 66.4. Also For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis. For an informal communication with the examiner, see Rule 66.6. If no reply is filed, the international preliminary examination report will be established on the basis of this opinion. The final date by which the international preliminary examination report must be established 4. according to Rule 69.2 is: 26 February 2001 Authorized Officer Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE

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1				inte dona approacon i vo.	
				T/AU99/00922	
Y		Basis of the opinion	1		
1.	W	ith regard to the eleme	ents of the international ap	oplication:*	
		X the internation	al application as originally	y filed.	
		the description	, pages , as origina	ally filed,	
			pages , filed with	the demand,	
			pages, received or	n with the letter of	
		the claims,	pages , as original	lly filed,	
			pages , as amende	ed under Article 19,	
			pages, filed with	the demand,	
			pages, received or	n with the letter of	
		the drawings,	pages , as original	ly filed,	
			pages , filed with	the demand,	
			pages, received or	n with the letter of	
		the sequence list	sting part of the description	n:	
			pages , as origina	lly filed	
		•		the demand	
	•		pages , received or	n with the letter of	
2.	which	the international appli	cation was filed, unless oth	above were available or furnished to this Authority in the language in herwise indicated under this item.  hority in the following language which is:	
				purposes of international search (under Rule 23.1(b)).	
		the language of pub	lication of the internationa	al application (under Rule 48.3(b)).	
		the language of the and/or 55.3).	translation furnished for th	he purposes of international preliminary examination (under Rules 55.	.2
3.		egard to any nucleotid on the basis of the seq		nence disclosed in the international application, the written opinion wa	as
	unawn .	_	rnational application in pr	inted form.	
	片			in computer readable form.	
	H	· ·	ly to this Authority in writ	•	
	H	-	ly to this Authority in com		
		The statement that th	•	written sequence listing does not go beyond the disclosure in the	
				computer readable form is identical to the written sequence listing ha	S
4.		••••	e resulted in the cancellati	ion of:	
	لبيا	the descrip			
		the claims,			

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed"

This opinion has been established as if (some of) the amendments had not been made, since they have been

considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

sheets/fig.

5.

the drawings,



Ing	tional application No.
PC	AU99/00922

V.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

	citations and explanations s		
	1. Statement		
	Novelty (N)	Claims 1-2, 11-13	YES
		Claims 3-10	NO
	Inventive step (IS)	Claims 1-5, 11-13	YES
		Claims 6-10	NO
!	Industrial applicability (IA)	Claims 1-13	YES
		Claims	NO
ı	1		

#### 2. Citations and explanations

Documents considered for novelty and inventive step:

GB 2 296 749

EP 297 612

Derwent Abstract accession Number 97-035858 (DE 29 618 681 U)

#### Novelty (N) claims 1-2, 11-13

GB 2 296 749 discloses insulation with an inner foam layer 4" which may act as a water vapour barrier (page 10 lines 7-10), outer foam layer 3 and cladding layer 2 which acts as a water vapour barrier. The current specification indicates at page 4 lines 7 to 9 that the cladding may also be the water vapour barrier. The insulation of the citation is stated as being used down to -200°C (page 2 second paragraph) indicating it is suitable for cryogenic use. The specification makes no clear statement as to the scope of "suitable thermal shock characteristics under cryogenic conditions," therefor this statement has been interpreted as 'suitable for cryogenic conditions. As such the features of claim 1 are disclosed.

Claim 2 is disclosed by connection means 7, 8 in figure 1 for adjacent semi-cylindrical modules. Claims 11-13 are also disclosed by the citation.

#### Inventive Step (IS) claims 3-5

Claims 3-5 are considered not to involve an inventive step in the light of GB 2 296 749. It is considered that the person skilled in the art could arrive at the features of these claims through routine design steps in solving the problem of how to connect longitudinally adjacent insulation modules, especially as there is already disclosed connection means of male/female parts for adjacent semi-cylindrical modules.

#### Inventive Step (IS) claim 1

EP 297 612 and Derwent Abstract 97-035858 both disclose modules with a single insulating layer, cladding layer and water vapour barrier layer. This differs from claim 1 which defines there being at least two insulating layers. However the specification does make any clear statement as to why there needs to be at least two insulating layers, especially as both layers may be made of the same material. It is therefor not considered essential to the working of the invention as defined by claim 1 that there be at least two insulating layers. Although the inventions of the citation are not for cryogenic conditions, it is considered that the person skilled in the art could readily select materials and through a routine workshop improvement make the citations suitable for cryogenic purposes. As such claim 1 lacks an



nal application No.





# Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 1 defines that the first insulation material has a "suitable thermal shock characteristic under cryogenic conditions." It is not clear from the specification what the precise scope of "suitable" encompasses or excludes from the claim.

REG 2 1 1 AUG 2000

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P15548PCAU	ACTION Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date	(day/month/year)	Priority Date (day/month/year)
PCT/AU99/00922	25 October 1999		26 October 1998
International Patent Classification (IPC)	or national classification	and IPC	
Int. Cl. <sup>7</sup> F16L 59/02, F16L 59/14			
Applicant BAINS HARDING LIMITED			
pan			
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>			
2. This REPORT consists of a to	tal of 3 sheets, including	g this cover sheet.	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).			
These annexes consist of a total	al of 2 sheet(s).		
3. This report contains indications relati	ng to the following items:		
I X Basis of the repor	t		
II Priority			
III Non-establishmer	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
IV Lack of unity of in	nvention		
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI Certain document			
VII Certain defects in	VII Certain defects in the international application		
VIII Certain observations on the international application			
Date of submission of the demand 17 April 2000	1 A	e of completion of the	e report
Name and mailing address of the IPEA/AU	Auth	orized Officer	
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au		RETH COOK	
Facsimile No. (02) 6285 3929		mhone No. (02) 628	2 2541

# INTERNATIONAL PRELIMINATION REPORT

rnational application No.	
T/AU99/00922	

I.	Basis of the report
1.	With regard to the elements of the international application:*
	the international application as originally filed.
	X the description, pages 1-2, 4-18, as originally filed,
	pages , filed with the demand,
	pages 3, received on 26 July 2000 with the letter of 26 July 2000
	X the claims, pages 20-21, as originally filed,
	pages , as amended (together with any statement) under Article 19,
	pages , filed with the demand,
	pages 19, received on 26 July 2000 with the letter of 26 July 2000
	X the drawings, pages /- g as originally filed,
	pages filed with the demand,
	pages, received on with the letter of
	the sequence listing part of the description:
	pages , as originally filed
	pages , filed with the demand
	pages, received on with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig.
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this
**	report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

Claims

NO

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims 1-13	YES	
		Claims	NO	
	Inventive step (IS)	Claims 1-13	YES	
		Claims	NO	
	Industrial applicability (IA)	Claims 1-13	YES	

2. Citations and explanations (Rule 70.7)

#### Novelty (N) and Inventive Step (IS) claims 1-13

The closes prior art is considered to be GB 2 296 749. This document discloses a cryogenic insulation module with inner and outer insulation layers, and cladding layer, one layer of which acts as a water vapour barrier, and contacting surfaces for contacting adjacent modules. Claim 1 differs from the prior art by having the longitudinal contacting surface being formed at least in part by one of the insulation layers, while the cited document discloses a separate layer being used to form the longitudinal contacting surface, nor would this construction defined in claim 1 be obvious in the light of the cited document. Therefore the subject matter of claim 1 and appended claims 2-13 is novel and is not obvious and meets the requirements of Articles 33(2) and 33(3) of the PCT with regard to novelty and inventive step.